

What is claimed is:

1. A wireless communication system, comprising:
 - a queue information search unit for searching a queue-status information provided to a data in a packet unit;
 - a communication priority decision unit for deciding a communication priority of a plurality of external devices based on the queue-status information as searched, giving a higher priority to an external device having a greatest number of packets in queues; and
 - a communication initiation unit for initiating a communication with the plurality of external devices according to the communication priority as decided.
2. The wireless communication system of claim 1, further comprising a counter for counting a number of times that the communication is initiated for each of the plurality of external devices; and
 - a comparator for comparing a first counter value of a first external device that corresponds to a transmitted data with a second counter value of a second external device that has a maximum counter value, wherein
 - when a counter value difference between the first external device and the second external device is smaller than a predetermined threshold, the communication initiation unit initiates communication with the third external device which has a highest communication priority.
3. The wireless communication system of claim 2, wherein, when the first external device has a first communication priority other than the

highest communication priority, the counter subtracts a counter increment step size of the first external device from the first counter value.

4. The wireless communication system of claim 3, wherein the counter increases a third counter value of the third external device having the highest communication priority by as much as '1'.

5. The wireless communication system of claim 2, wherein, when the first external device has the highest communication priority, the communication initiation unit initiates communication with the first external device.

6. The wireless communication system of claim 5, wherein the counter increases the first counter value by as much as '1'.

7. The wireless communication system of claim 1, further comprising:

a counter for counting a number of times that the communication is initiated for each of the plurality of the external devices; and

a comparator for comparing a first counter value of a first external device corresponding to a transmitted data with a second counter value of a second external device having a maximum counter value, wherein

when a difference between the first counter value and the second counter value is greater than a predetermined threshold, the communication initiation unit initiates communication with the first external device.

8. The wireless communication system of claim 7, wherein the counter adds the first counter value with a difference between a maximum

counter increment step size and a counter increment step size of the first external device, the maximum counter increment step size being a greatest counter increment step size of the plurality of external devices.

9. A wireless communication method comprising the steps of:

searching a queue-status information provided in a data in a packet unit;

deciding a communication priority of a plurality of external devices based on the queue-status information as searched, giving a higher priority to an external device of the plurality of external devices having a greatest number of packets in queues; and

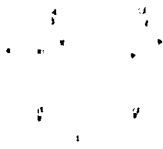
initiating communication with the plurality of external devices according to the communication priority as decided.

10. The wireless communication method of claim 9, further comprising the steps of:

counting a number of times that communication is initiated for each of the plurality of external devices; and

comparing a first counter value of a first external device that corresponds to a transmitted data with a second counter value of a second external device that has a maximum counter value, wherein

when a counter value difference between the first external device and the second external device is smaller than a predetermined threshold, the communication initiation step initiates communication with a third external device which has a highest communication priority.



11. The wireless communication method of claim 10, wherein, when the first external device has a first communication priority other than the highest priority, a counting step subtracts a counter increment step size of the first external device from the first counter value of the first external device.

12. The wireless communication method of claim 11, wherein the counting step increases a third counter value of the third external device having the highest communication priority by as much as '1'.

13. The wireless communication method of claim 10, wherein, when the third external device does not have the highest communication priority and the first external device has the highest communication priority, the communication initialization step initiates communication with the first external device.

14. The wireless communication method of claim 13, wherein the counting step increases the first counter value by as much as '1'.

15. The wireless communication method of claim 9, further comprising the steps of:

counting a number of times that communication is initiated for each of the plurality of external devices; and

comparing a first counter value of the first external device corresponding to a transmitted data and the second counter value of the second external device having the maximum counter value, wherein

when a counter value difference between the first external device and the second external device is greater than a predetermined threshold, the

communication initialization step initiates communication with the first external device.

16. The wireless communication method of claim 15, wherein the counting step adds the first counter value with a difference between a maximum counter increment step size and a counter increment step size of the first external device, the maximum counter increment step size being a greatest counter increment step size of the plurality of external devices.